START

9308138

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
7601 W. Clearwater Suite 102 • Kennewick, Washington 99336 • (509) 546-2900

September 10, 1993

Mr. Lee Michael
Westinghouse Hanford Company
P. O. Box 1970 MS H6-08
Richland, WA 99352-3562

Dear Mr. Michael:

Re: Entry of Site Visit Report to Administrative Record
4843 Alkali Metal Storage Facility (S-4-1, M-20-14)

This letter transmits the Washington State Department of Ecology's request to enter the above referenced document to the 4843 Alkali Metal Storage Facility Unit, Resource Conservation & Recovery Act (RCRA) Administrative Record. Enclosed is a copy of the above referenced report. If you are unable to enter the document to the administrative record, please notify me, and I will pursue the entry effort at the unit manager's meeting.

If you or your staff have any questions concerning this request, please contact me at (509) 736-3034.

Sincerely,

Alisa D. Huckaby
Nuclear and Mixed Waste Management Program

AH:sr
Enclosure

cc: Randy Krekel, DOE
Jason Adler, WHC
Dan Duncan, EPA
Doug Sherwood, EPA
Administrative Record

4843 Alkali Metal Storage Facility Unit
(Group # S-4-1, Milestone M-20-14)
July 9, 1993, Site Report by Alisa Huckaby

On July 9, 1993, I met Jason Adler (WHC), Mickey Seamans (WHC), and Reg Dahl (WHC) at the Fast Flux Test Facility (FFTF) 400 Area Visitor Center at 8:55 a.m. After introductions, we drove the state vehicle to the 4843 AMSF unit. On the way to the unit, Seamans indicated that the unit may have the radiological survey soon after the mixed wastes have been removed from the unit. Seamans explained that the survey would "release" the unit from applicable radiation zone standards. I indicated that I would like to be present during the radiation survey to see it being conducted. Seamans indicated that she would talk with her supervisor regarding arrangements. Also, on the way to the unit, Adler pointed out that security measures had been changed and that the closure plan would be revised to reflect the changes.

At the unit, everyone present went through the inventory list item by item, during which Dahl and Seamans provided explanations and descriptions of waste packaging, waste handling, waste generation events, storage unit usages, etc. For example, Dahl explained that waste #76 from the inventory represented five pounds of sodium within a container/can within the 55-gallon drum. Adler explained that everything on the inventory list (dated January 13, 1993, and kept at the unit) represents the inventory of everything currently stored at the unit. During the inventory discussion, Adler explained that bags/containers/weights are placed on the tops of drums to control radiation vertically and to prevent what is termed "shine." Also during the inventory discussion, we discussed waste #77 from the April inventory included as Appendix C of the 4843 AMSF closure plan. Waste #77 was not on the January 13, 1993, inventory list and Adler, Dahl, and Seamans agreed to find out specifics of how (and where) the waste was generated.

During the inventory discussions, it was noted that the inventory list maintained at the unit contained more information than the one provided with the closure plan. Such information included the identification of personnel who packaged and managed the waste after its generation and a brief description of what event the waste generation was related to. It was also noted that the descriptions of the wastes on the two inventories were very similar, but that the inventory maintained at the site was more descriptive for some of the wastes.

After the inventory discussions, the outside of the building (where fencing did not prevent access) was inspected. An area of discoloration was noted on the south end of the building of which upon closer inspection appeared to be rust discoloration (photo attached). Also noted within the rust discolored area, were what

appeared to be holes along the top edge of rust line which may represent bolt connection points.

After inspecting the outside of the building, the inside of the building was revisited during which the additional photos were taken. Photos #2 and #3 show portions of the radioactive waste storage area located in the northern half of the building. Photo #4 was taken from near the south personnel door facing west and shows the southern and western walls of the building. Photo #4 shows the metal siding of the lower portion of the wall and the insulation of the upper portion of the wall and the ceiling. Photo #5 was taken from near the east roll up door facing north and shows the eastern end of the radioactive waste storage area. The large box/container shown on the left side of the photo represents waste inventory #80. Photo #6 was taken of the concrete floor and shows several stains. Photo #7 was taken facing south and shows the power panels located in the southwestern corner of the building. The torn insulation directly above the sheet metal wall may be noted in photo #7. Photo #8 was taken of a small crack within the concrete floor. Photo #9 was taken from near the center of the building within the radioactive waste storage area and shows a control joint in the concrete floor. The center of photo #9 shows damaged concrete along the control joint. Photo #10 also shows damaged concrete along the control joint. Photo #11 shows small cracks perpendicular to and intersecting the control joint. Photo #12 was also taken of the concrete floor and shows several stains. Photo #13 was taken of a section of the control joint in the dangerous waste storage side of the building (southern side). Prior to taking photo #13, the dirt in the control joint had been swept out of the control joint and the largest crack noted in the concrete during the visit was revealed.

While taking photographs, several items were discussed. Decontamination verification of insulation was briefly discussed, during which punctures, tears, and stains were noted on/in the insulation. The concrete control seams were noted to not have rubber caulking. For closer inspection of a section of concrete control seam, the dirt was brushed out of the dirt-filled seam and revealed a crack which extended for the length of the cleared seam. Chip versus core concrete sampling was also briefly discussed in relation to areas along the control seam noted to be cracked or stained, and in relation to stained areas on the concrete. The site visit ended at approximately 11:30 a.m. after which Adler, Seamans, and Dahl were returned to the FFTF Visitor Center.

NUCLEAR AND MIXED WASTE MANAGEMENT PROGRAM
HANFORD PROJECT

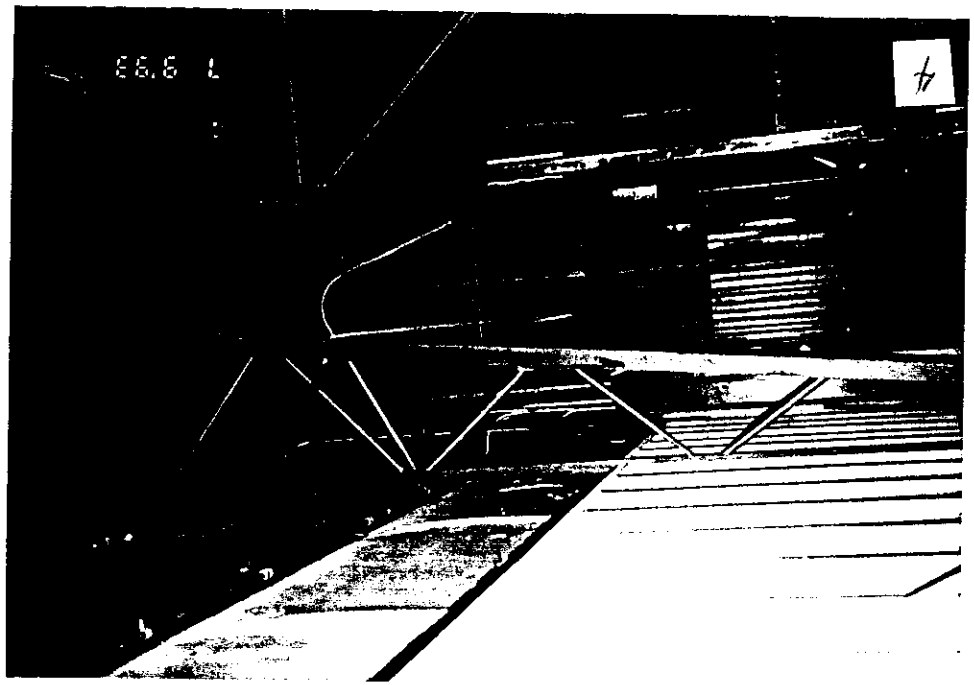
4843 ALKALI METAL STORAGE FACILITY SITE VISIT REPORT

PHOTOGRAPH LOG

PHOTOGRAPHS TAKEN ON JULY 9, 1993 BY ALISA D. HUCKABY



| NUMBER | COMMENTS: |
|---|---|
| 1 | Photo of rust discoloration on south end of building. |
| 2 | Photo of rad waste storage area. Large yellow container represents waste # 80 of inventory. Photo taken from near western rollup door. |
| 3 | Photo of rad waste "container." From inventory list, # 82 is described as "fermi heat exchanger." |
| 4 | Photo of south wall of building taken from near south personnel door. Photo shows insulation above sheet metal wall of building. |
| 5 | Photo of northeastern corner of rad waste storage area. Concrete block shielding shown in photo. |
| 6 | Photo of staining on floor near southern personnel door. |
| 7 | Photo of power panels near southwestern corner of building. |
| 8 | Photo of small crack in concrete floor near eastern rollup door. |
| 9 | Photo of control joints in concrete floor in rad zone. |
| 10 | Photo of chipped portion of control joint in concrete floor. |
| 11 | Photo of small cracks, perpendicular to control joint orientation. Photo (right side) also shows chipped portion of control joint. |
| 12 | Photo of stain on concrete floor. |
| 13 | Photo of exposed crack in control joint of concrete floor |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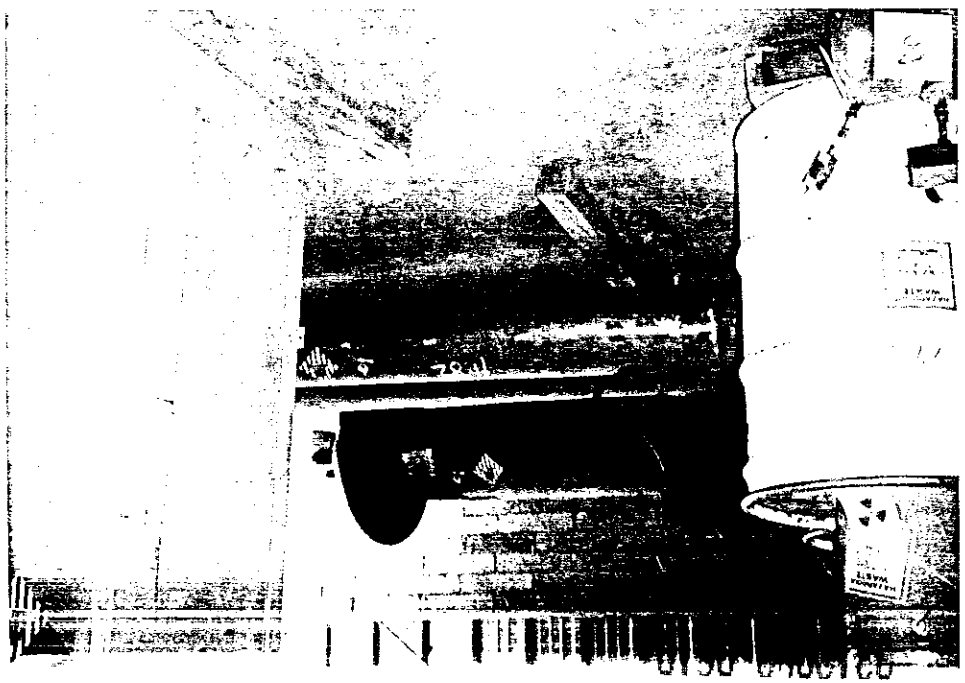
4


E6.6 L
2



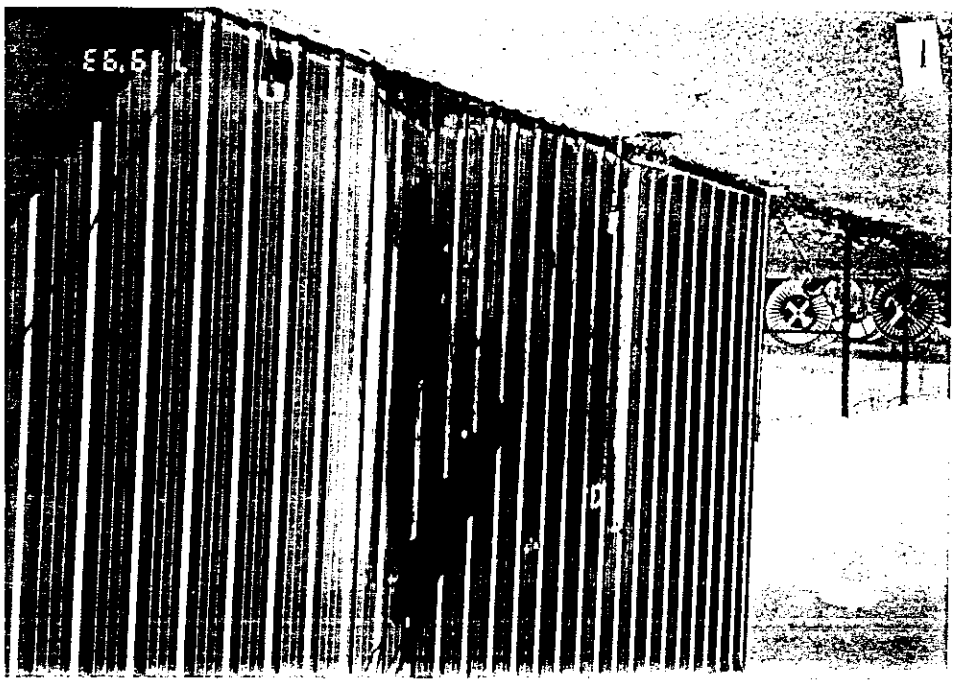

E6.6 L

Photo 1

4843 Alkali Metal Storage Facility

Photographed by A.D. Huckaby 7-9-93

Hanford WA 7890008967

Photo 2

4843 Alkali Metal Storage Facility

Photographed by A.D. Huckaby 7-9-93

Hanford WA 7890008967

Photo 9313043.0611

4843 Alkali Metal Storage Facility

Photographed by A.D. Huckaby 7-9-93

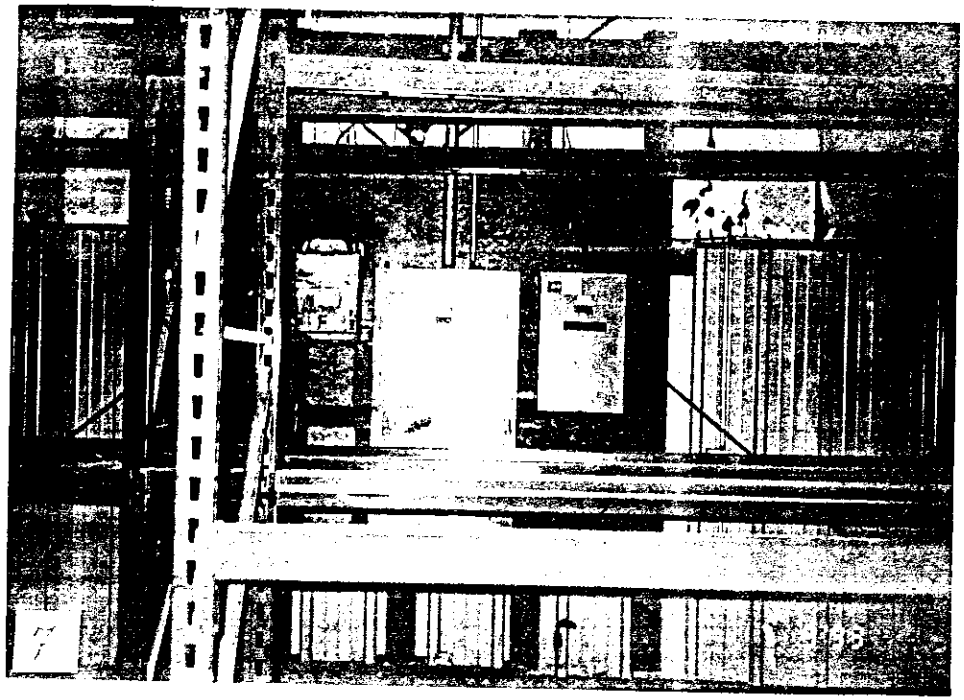
Hanford WA 7890008967

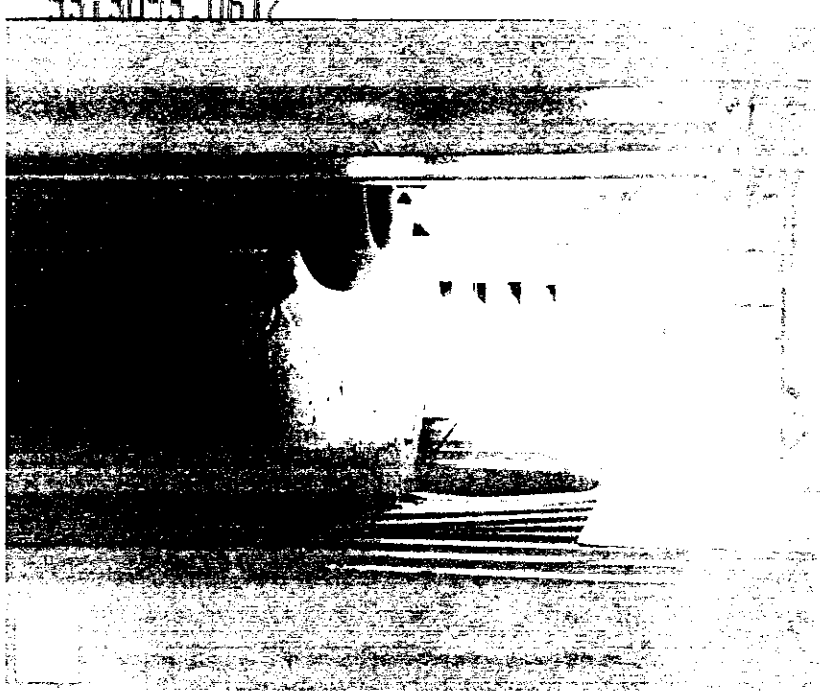
Photo 4

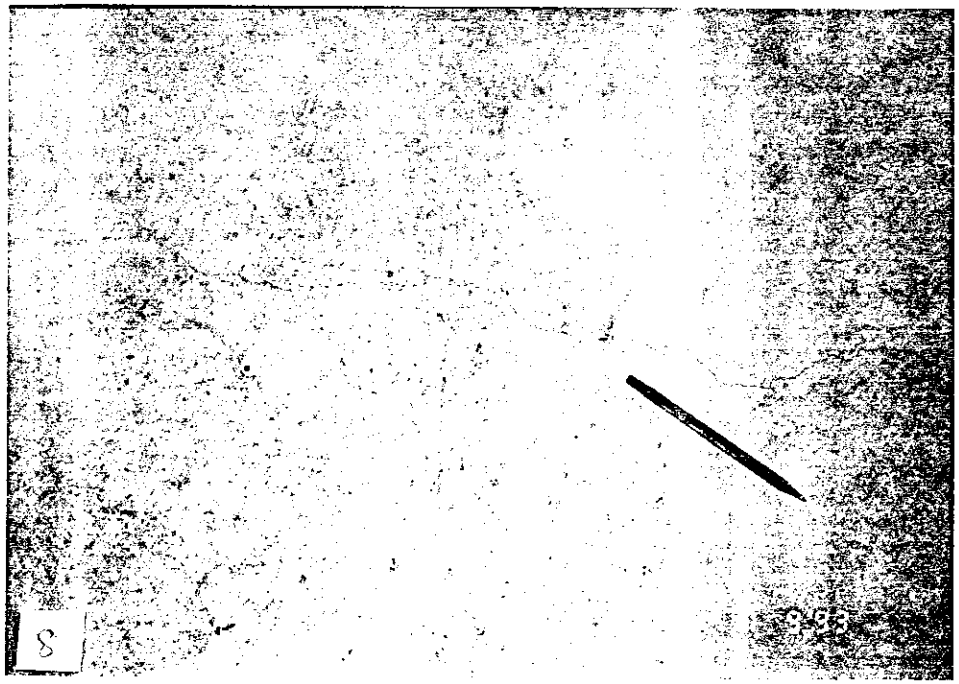
4843 Alkali Metal Storage Facility

Photographed by A.D. Huckaby 7-9-93

Hanford WA 7890008967







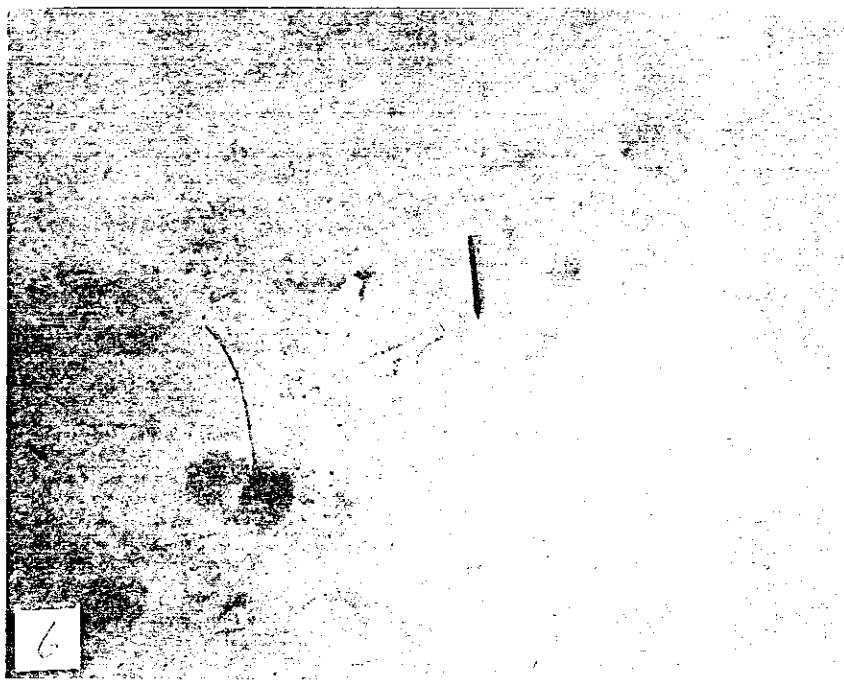


Photo 5
4843 Alkali Metal Storage Facility
Photographed by A.D. Huckaby 7-9-93

Hanford WA7890008967

Photo 6
4843 Alkali Metal Storage Facility
Photographed by A.D. Huckaby 7-9-93

Hanford WA7890008967



Photo 7
4843 Alkali Metal Storage Facility
Photographed by A.D. Huckaby 7-9-93

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Photo 8
4843 Alkali Metal Storage Facility
Photographed by A.D. Huckaby 7-9-93

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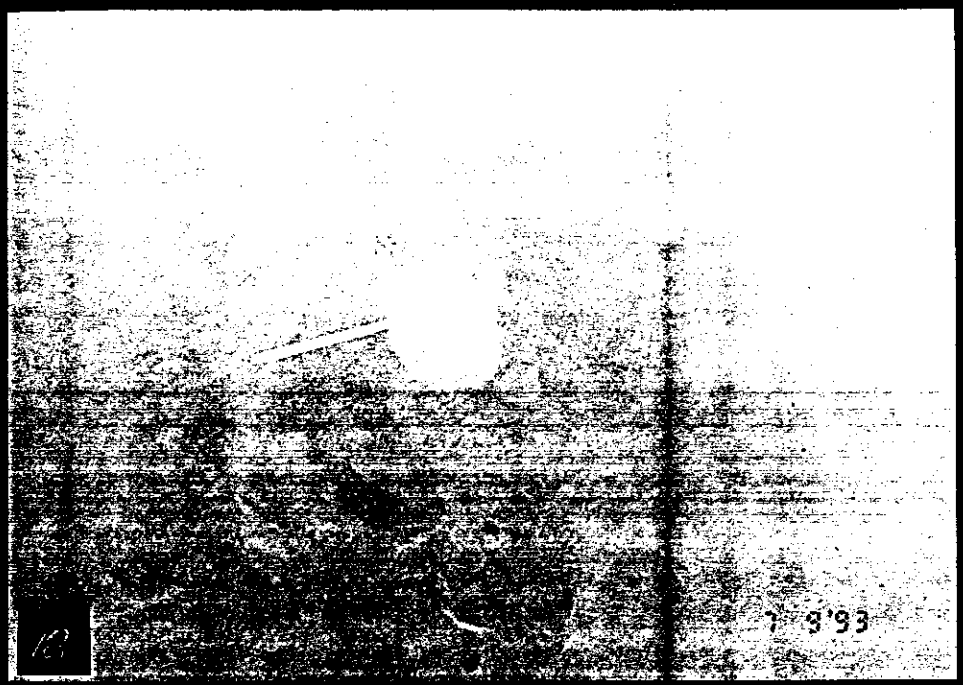
7 9'93


9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7 9'93

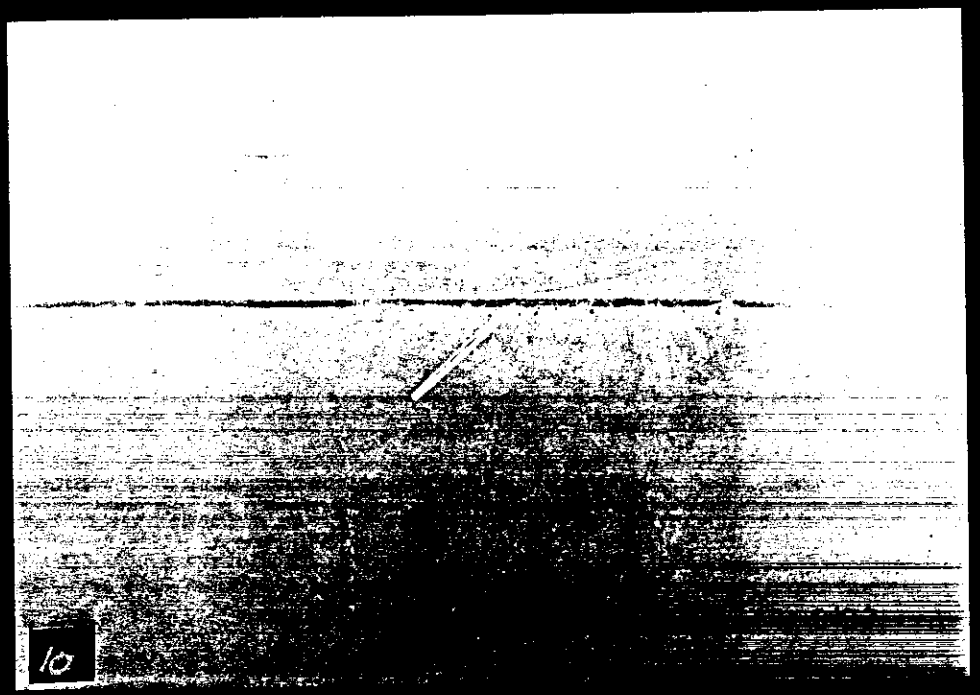
10

Photo 9
4843 Alkali Metal Storage Facility
Photographed by A.D. Huckaby 7-9-93

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Photo 11
4843 Alkali Metal Storage Facility
Photographed by A.D. Huckaby 7-9-93

Hanford WA7890008967

Photo 10
4843 Alkali Metal Storage Facility
Photographed by A.D. Huckaby 7-9-93

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Photo 12
4843 Alkali Metal Storage Facility
Photographed by A.D. Huckaby 7-9-93

Hanford WA7890008967


13

Photo 13 9313043.0617
4843 Alkali Metal Facility
Photographed by A.D. Huckaby 7-9-93

Hanford WA7890008967

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| A. D. Huckaby, Ecology | L. E. Michael, BCSR | 9308138 |

Subject: ENTRY OF SITE VISIT REPORT TO ADMINISTRATIVE RECORD 4843 ALKALI METAL STORAGE FACILITY (S-4-1, M-20-14)

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